(Rupees in Crores)

Year	Outlay	Expenditure
1993-94	47.00	38.52
1994-95	45.00	29.74
1995-96	45.00	40.87

[Translation]

Electricity Generation by Atomic Power Plants

*357. SHRI BRAJ MOHAN RAM : Will the PRIME MINISTER be pleased to state:

(a) the names of places in the country where electricity is generated by Atomic Power Plants and the quantum of electricity generated by each of these, separately; and

(b) the names of places where Atomic Power Plants are proposed to be set up during the Ninth Five Year Plan and the quantum of electricity likely to be generated by these plants ?

THE MINISTER OF STATE OF THE MINISTRY OF PLANNING AND PROGRAMME IMPLEMENTATION OF MINISTER OF STATE OF THE MINISTRY OF SCIENCE AND TECHNOLOGY (SHRI YOGINDER K. ALAGH) : (a) Details of the Atomic Power Plants in the country, their location and quantum of electricity generated by each are given below :

Sr. No.	Nuclear Power Station and its location	Unit No.	Present capacity (MUs)	Cumulative electricity generation upto Feb. 97 (MUs)
1.	Tarapur Atomic Power Station, located at Tarapur in Maharashtra.	TAPS-1	160	24180
		TAPS-2	160	24473
2.	Rajasthan Atomic Power Station, located at Rawatbhata in Rajasthan.	RAPS-1	100	8289
		RAPS-2	200	15000
3.	Madras Atomic Power Station, located at Ralpakkam in Tamilnadu.	MAPS-1	170	12654
		MAPS-2	170	10322
4.	Narora Atomic Power Station, located at Narora in U.P.	NAPS-1	220	4539
		NAPS-2	220	4504
5.	Kakrapar Atomic Power Station located at Kakrapar in Gujarat.	KAPS-1	220	3615
		KAPS-2	220	2258

(b) Kaiga Atomic Power Project Units-1&2 in Karnataka and Rajasthan Atomic Power Project Units-3&4 in Rajasthan Presently under construction have a total capacity of 880 MWe. These are expected to be commissioned in 1998 and would generate about 5000 MUs each during the IX Plan.

[English]

Oil Exploration

*358. SHRI N.K. PREMCHANDRAN :
SHRI RAMESH CHENNITHALA :

Will the PRIME MINISTER be pleased to state:

(a) the number of thrust areas in which the oil exploration takes place at present;

(b) whether any proposal to restructure the entire petroleum sector is under consideration;

(c) if so, the details thereof;

(d) the quantity of oil production from each thrust area per year;

(e) whether the Government propose of deepen the exploration in the thrust areas;

(f) if so, the details thereof;

(g) the new areas in which the oil exploration activities are likely to be started; and

(h) the quantity of oil production expected annually from such oil fields ?

THE MINISTER OF STATE IN THE MINISTRY OF PETROLEUM AND NATURAL GAS (SHRI T.R. BAALU) : (a) The present exploration strategy involves continuance of major exploration thrust in currently producing basins like Cambay, Upper Assam, Bombay Offshore, Krishna-Godavari & Cauvery basins for finding low risk hydrocarbons by identifying the missed targets & locating new targets through emphasis on quality of seismic data acquisition including 30 in solving intricacies of subtle traps which will be one of the main exploration targets in these basins.

Other thrust areas identified for exploration are :

- Gondwana & Vindhyan Basins
- Schuppan belt of North-East region
- Deep Water exploration both in East & West Coast Offshore beyond 200 m. isobath.
- Kutch offshore for Mesozoic prospects
- Deeper objectives of Western & North-Eastern Onland basins i.e. Mesozoic section of Combay, Kutch, Saurashtra & Rajasthan & Palaeocane-Eocene of Upper Assam.
- Areas of uncertain prospectivity such as Deccan Plateau, beneath the thrust sheets of Nagaland & Manipur etc.

New targets like tight gas sands, deep basin gas on proved basins, Gondwana & West Bengal Basins.

(b) and (c) Strategic Planning Group on Restructuring of Oil Industry ('R' Group) was set up in January, 1995 inter alia, to make policy recommendations and suggest initiatives required for restructuring of the Oil Industry to meet the basic strategic objectives of developing a financially sound and Internationally competitive hydrocarbon sector. The 'R' Group has submitted its report. However, no decision has been taken on its recommendations.

(d) Of the identified basins/areas, as mentioned in reply to Part (a), oil production is being obtained only from the Category-I basins. The basin-wise oil production from each of these basins during the year 1995-96 was as under :-

Basin	Oil Production (MMT)
Cambay	6.386
Upper Assam & Assam-Arakan Fold Belt	5.074
Krishna-Godavari & Cauvery	0.575
Bombay Offshore	23.127
	35.162

(e) Yes, Sir.

(f) and (g) The details are given in reply to Part (a) above.

(h) The quantity of oil expected from new exploration thrust areas can only be estimated after the results of exploration and establishment of reserves.

[Translation]

National Power Grid

*359. DR. MAHADEEPAK SINGH SHAKYA :
SHRI NAWAL KISHORE RAI :

Will the PRIME MINISTER be pleased to state:

(a) whether the Government have formulated any schemes to inter link all the power grids with one another in the country;

(b) if so, the details thereof;

(c) the estimated expenditure likely to be incurred thereon;

(d) the sources through which the funds are proposed to be mobalised; and

(e) the time by which such schemes are likely to be implemented ?

THE MINISTER OF STATE IN THE MINISTRY OF POWER (DR. S. VENUGOPALACHARI) : (a) and (b) Yes, Sir. The Government have formulated plans to inter connect various regional electricity grids of the country. Some of these links are already under operation, others are under construction and under consideration. A list of the centrally owned inter-regional links is given below :

I. Existing (Under Operation)

(i) Between Western & Northern Region – 500 MW Vindhyachal HVDC Back to Back Station.

(ii) Between North-Eastern & Eastern Region 200 KV Birpara-Bongaigaon.

(iii) Reamagundam – Chandrapur – 400 KV line between Sourthern Region & Western Region.

II. Under Construction.

(i) Between Western & Southern Region 1000 MW HVDC back-to back at Chandrapur.

(ii) Between Eastern & Southern Regions - 500 MW HVDC back-to-back at Gazuwaka.

(iii) Between North Eastern & Eastern Region 400 KV between Bongaigaon and Malda.

III. Under Consideration.

(i) Between Eastern & Northern Region - 500 MW at Sasaram between Biharashariff to Rihand.

IV. Studies carried out by POWERGRID suggests requirement of the following additional major transmission links;

(i) 400 KV AC Raipur (WR) to Rourkela (ER)

(ii) 3000 MW HVDC Bipole link between Talcher in ER to Bangalore in SR as a part of Talcher-II transmission system.

(iii) 3000 MW HVDC Bipole link between Ib Valley in ER and Jaipur in NR and 400 KV AC system from Ib Valley (ER) to Raipur (WR). These transmission links are part of the transmission system associated with CEPA.

(c) and (d) Estimated cost of the above projects and other details are given in the attached Statement.

(e) Expected commissioning dates of the aforementioned project (s) are as follows :

		Commissioning Dates
i.	Chandrapur B/B HVDC	11/97
ii.	Gazuwaka B/B HVDC	2/99
iii.	Sasaram B/B HVDC	3/2000
iv.	400 KV Bongaigaon – Malda	3/98
v.	Talcher-Bangalore HVDC	2001-02
vi.	(a) Ib Valley – Jaipur HVDC	2001-02
	(b) Ib Valley – Raipur AC system	2000-01
vii.	400 KV Raipur – Rourkela	2001